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APPLICATION NO.]	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,260		12/15/2003	Werner Juengling	M4065.0236/P236-D	1480
24998	7590	07/12/2005		EXAMINER	
DICKSTEI 2101 L Stree		PIRO MORIN &	WOJCIECHOWICZ, EDWARD JOSEPH		
Washington, DC 20037				ART UNIT	PAPER NUMBER
				2815	

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/734,260	JUENGLING, WERNER				
Office Action Summary	Examiner	Art Unit				
	Edward Wojciechowicz	2815				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a ref. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state that the period for reply within the set or extended period for reply will, by state that the main that the period for the main term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be timely eply within the statutory minimum of thirty (30) days but will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	.					
2a) ☐ This action is FINAL . 2b) ☑ The	nis action is non-final.	•				
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 111-163 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 111-163 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	• • • • • • • • • • • • • • • • • • • •					
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		eatent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 111-117 and 120-163 are rejected under 35 U.S.C. 102(e) as being anticipated by Lou (6,235,579). The reference to Lou teaches the structural features of the claimed invention. For example, as shown in FIG. 2F, Lou shows a metal-polysilicon contact having a polysilicon layer (214), a barrier layer (216) formed over the polysilicon layer, a conductive layer (218a) formed over the barrier layer, and a silicon nitride layer (210a) which is capable of absorbing oxygen, and is formed adjacent to the conductive layer, as claimed.

In addition, Lou teaches the same materials for the contact structure, including use of a platinum conductive layer and a nitride barrier layer. Lou also meets the limitations of an oxygen absorbing member comprised of multiple layers with intervening conductive layers, for example, if one considers dielectric layer (224) as an additional oxygen absorbing layer, in conjunction with metal spacer (222) and oxygen absorbing layer (210a).

Lou also teaches that this capacitor structure may be used in memory devices, and that dielectric layer (224) may be formed of tantalum oxide which meets the requirement that the layer be at least partially oxidized.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

forth in section 102 of this title, if the differences between the subject matter sought to be patented and

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

(a) A patent may not be obtained though the invention is not identically disclosed or described as set

Patentability shall not be negatived by the manner in which the invention was made.

Claims 118 and 119 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lou. The

dimensions claimed, while not specifically recited, are close to those used in Lou, and would be within the

scope of this reference and obvious to those skilled in the art.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can

normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom

Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

Edward Wojciechowicz **Primary Examiner**

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EW: ew